

IN THE CLAIMS

Current Listing of Claims:

1-14. (Canceled)

15. (Currently amended) ~~The electroless plating structure according to claim 13;~~
An electroless plating structure on a copper pad, having a composition comprising:



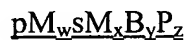
wherein pM is a primary metal consisting of at least one element selected from the group consisting of Cu, Ag, and Au;

wherein sM is a secondary metal consisting of at least one element selected from the group consisting of Cr, Mo, W, Mn, Tc, and Re;

wherein B and P represent boron and phosphorus, respectively; and

wherein w has a range from about 0.5 to about 0.99, x has a range from 0.0 to about 0.2, y has a range from about .01 to about 0.1, and z has a range from 0.0 to about 0.02.

16. (Currently amended) ~~The electroless plating structure according to claim 13;~~
An electroless plating structure on a copper pad, having a composition comprising:



wherein pM is a primary metal consisting of at least one element selected from the group consisting of Cu, Ag, Au, Pd, Pt, Ni, Rh, and Ir;

wherein sM is a secondary metal consisting of at least one element selected from the group consisting of Cr, Mo, W, Mn, Tc, and Re;

wherein B and P represent boron and phosphorus, respectively; and

wherein w has a range from about 0.5 to about 0.99, x has a range from a value approaching but not equal to 0.0 to about 0.02, y has a range from about .01 to about 0.1, and z has a range from 0.0 to about 0.02.

17. (Previously presented) The electroless plating structure according to claim 16, wherein pM is a primary metal consisting of at least one element selected from the group consisting of Ni, Pd, and Pt.

18. (Canceled)

19. (Currently amended) ~~The electroless plating structure according to claim 13,~~
An electroless plating structure on a copper pad, having a composition comprising:

$pM_w sM_x B_y P_z$

wherein pM is a primary metal consisting of at least one element selected from the group consisting of Rh and Ir;

wherein sM is a secondary metal consisting of at least one element selected from the group consisting of Cr, Mo, W, Mn, Tc, and Re;

wherein B and P represent boron and phosphorus, respectively; and

wherein w has a range from about 0.5 to about 0.99, x has a range from 0.0 to about 0.2, y has a range from about .01 to about 0.1, and z has a range from 0.0 to about 0.02.

20-31. (Canceled)

32. (Previously presented) An electroless plating structure on a copper pad, having a composition comprising:



wherein pM is a primary metal consisting of at least one element selected from the group consisting of Cu, Ag, Au, Pd, Pt, Ni, Rh, and Ir;

wherein sM is a secondary metal consisting of at least one element selected from the group consisting of Cr, Mo, W, Mn, Tc, and Re;

wherein B and P represent boron and phosphorus, respectively; and

wherein w has a range from about 0.5 to about 0.99, x has a range from 0.0 to about 0.2, y has a range from about .01 to about 0.1, and z has a range from a value approaching but not equal to 0.0 to about 0.02.

33. (Previously presented) The electroless plating structure according to claim 32, wherein x has a range from a value approaching but not equal to 0.0 to about 0.02.

34. (Previously presented) The electroless plating structure according to claim 32, wherein pM is a primary metal consisting of at least one element selected from the group consisting of Rh and Ir.

35. (Previously presented) An electroless plating structure on a copper pad, having a composition comprising:



wherein sM is a secondary metal consisting of at least one element selected from the group consisting of Cr, Mo, W, Mn, Tc, and Re;

wherein Co, B, and P represent cobalt, boron, and phosphorus, respectively;
and

wherein w has a range from about 0.5 to about 0.99, x has a range from 0.0 to about 0.2, y has a range from about .01 to about 0.1, and z has a range from a value approaching but not equal to 0.0 to about 0.02.

36. (Previously presented) The electroless plating structure of claim 35 wherein x has a range from a value approaching but not equal to 0.0 to about 0.02.

37. (Canceled)